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1 The state of the art in locally distributed Web-server systems

Valeria Cardellini, Emiliano Casalicchio, Michele Colajanni, Philip S. Yu
June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2
Publisher: ACM Press

Full text available: pdf(1.41 MB) Additional Information: full citation, abstract, references, citings, index terms

The overall increase in traffic on the World Wide Web is augmenting user-perceived response times from popular Web sites, especially in conjunction with special events. System platforms that do not replicate information content cannot provide the needed scalability to handle large traffic volumes and to match rapid and dramatic changes in the number of clients. The need to improve the performance of Web-based services has produced a variety of novel content delivery architectures. This article w ...

Keywords: Client/server, World Wide Web, cluster-based architectures, dispatching algorithms, distributed systems, load balancing, routing mechanisms

2 Process migration

Dejan S. Milojičić, Fred Douglis, Yves Paindaveine, Richard Wheeler, Songnian Zhou
September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3
Publisher: ACM Press

Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has not achieved widespread use. With the increasing deployment of distributed systems in general, and distributed operating systems in particular, process migration is again receiving more attention in both research and product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

3 Bridging the digital divide: storage media + postal network = generic high-bandwidth

communication
Nitin Garg, Sumeet Sobti, Junwen Lai, Fengzhou Zheng, Kai Li, Randolph Y. Wang, Arvind Krishnamurthy
May 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 2
Publisher: ACM Press
Full text available: pdf(748.97 KB) Additional Information: full citation, abstract, references, index terms

Making high-bandwidth Internet access pervasively available to a large worldwide audience is a difficult challenge, especially in many developing regions. As we wait for the uncertain takeoff of technologies that promise to improve the situation, we propose to explore an approach that is potentially more easily realizable: the use of digital storage media transported by the postal system as a general digital communication mechanism. We shall call such a system a *Postmanet*. Compared to mor ...

Keywords: Distributed systems, peer-to-peer systems, postal system, storage systems, the digital divide

4 Turning the postal system into a generic digital communication mechanism
Randolph Y. Wang, Sumeet Sobti, Nitin Garg, Elisha Ziskind, Junwen Lai, Arvind Krishnamurthy
August 2004 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '04**, Volume 34 Issue 4
Publisher: ACM Press
Full text available: pdf(331.29 KB) Additional Information: full citation, abstract, references, citings, index terms

The phenomenon that rural residents and people with low incomes lag behind in Internet access is known as the "digital divide." This problem is particularly acute in developing countries, where most of the world's population lives. Bridging this digital divide, especially by attempting to increase the accessibility of broadband connectivity, can be challenging. The improvement of wide-area connectivity is constrained by factors such as how quickly we can dig ditches to bury fibers in the ground; ...

Keywords: network architecture, postal network, storage devices

5 A high-availability high-performance e-mail cluster
Wyman Miles
November 2002 **Proceedings of the 30th annual ACM SIGUCCS conference on User services**
Publisher: ACM Press
Full text available: pdf(175.10 KB) Additional Information: full citation, index terms

Keywords: anti-spam, anti-virus, cluster, electronic mail, failover, high-availability, high-performance, mail routing, proxy, redundancy

6 Scalable Networked Information Processing Environment (SNIPE)
Graham E Fagg, Keith Moore, Jack J Dongarra, Al Geist
November 1997 **Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)**
Publisher: ACM Press
Full text available: pdf(77.42 KB) Additional Information: full citation, abstract, references, citings

SNIPE is a metacomputing system that aims to provide a reliable, secure, fault-tolerant environment for long-term distributed computing applications and data stores across the global InterNet. This system combines global naming and replication of both processing and data to support large scale information processing applications leading to better availablity and reliability than currently available with typical cluster computing and/or distributed computer environments.

Keywords: MetaComputing, RCDS, SNIPE, reliable, scalable, secure

7 Operating system: The persistent relevance of the local operating system to global applications

Jay Lepreau, Bryan Ford, Mike Hibler

September 1996 **Proceedings of the 7th workshop on ACM SIGOPS European workshop: Systems support for worldwide applications**

Publisher: ACM Press

Full text available: pdf(828.93 KB) Additional Information: full citation, abstract, references, citings

The growth and popularity of loosely-coupled distributed systems such as the World Wide Web and the touting of Java-based systems as the solution to the issues of software maintenance, flexibility, and security are changing the research emphasis away from traditional single node operating system issues. Apparently, the view is that traditional OS issues are either solved problems or minor problems. By contrast, we believe that building such vast distributed systems upon the fragile infrastructur ...

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#5	(network and (switch* or mutiplex*)<IN>metadata)
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#8	(offline <IN>metadata)
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#10	(((ID or identification) and router<IN>metadata)) <AND> ((port and (id or identification)<IN>metadata))
#11	(((port and (id or identification)<IN>metadata)) <AND> ((network and (switch* or mutiplex*)<IN>metadata))) <AND> ((((ID or identification) and router<IN>metadata)) <AND> ((port and (id or identification)<IN>metadata)))
#12	((network and (switch* or mutiplex*)<IN>metadata)) <AND> (disk and (ID or identification))
#13	((((port and (id or identification)<IN>metadata)) <AND> ((network and (switch* or mutiplex*)<IN>metadata))) <AND> ((((ID or identification) and router<IN>metadata)) <AND> ((port and (id or identification)<IN>metadata)))) <AND> (((network and (switch* or mutiplex*)<IN>metadata)) <AND> (disk and (ID or identification)))

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	21811488	@ad<"20011228"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:34
L2	15	(susan near coatney).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:40
L3	9400	network adj (cache or buffer or storage)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:41
L4	1191	(network or proxy) adj cache	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:41
L5	419088	server	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:41
L6	2572	port adj (id or identification)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:41
L7	2688779	switch$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:41
L8	903271	disk or disks	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:41
L9	300	ID near router	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:41

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L10	396594	internet	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:41
L11	75912	router	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:42
L12	11923	(fiber or fibre) adj channel	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:42
L13	1	(disk adj (ID or identification)) same (offline)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:42
L14	18198	offline	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:42
L15	26350	(storage$2 or unit$2 or device$2 or disk$2 or server$2) adj (id or identification)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:42
L16	9400	network adj (cache or buffer or storage)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:42
L17	1191	(network or proxy) adj cache	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:42
L18	573	L16 and L17	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:42
L19	2572	port adj (id or identification)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:42

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L20	573	L16 and L17	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:42
L21	1	L20 and L19	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:42
L22	2688779	switch$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:42
L23	230	L20 and L22	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:42
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L25	230	L20 and L22	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:42
L26	12	L25 and L24	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:42
L27	18198	offline	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:42
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L29	0	L28 and L27	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:42

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L30	15	(susan near coatney).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:42
L31	0	L30 and L28	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 22:42